



Water-Data Report 2008

**01411295 TUCKAHOE RIVER AT ROUTE 49 AT HUNTERS MILL, NJ**

GREAT EGG HARBOR RIVER BASIN

LOCATION.--Lat 39°19'26", long 74°51'40" referenced to North American Datum of 1983, Estell Manor City, Atlantic County, NJ, Hydrologic Unit 02040302, on Tuckahoe River at State Route 49, 200 ft west from Hunters Mill, 2.0 mi upstream from confluence with Tarkiln Brook, and 3.0 mi southeast from Estell Manor Road.

DRAINAGE AREA.--17.8 mi<sup>2</sup>.

**WATER-QUALITY RECORDS**

PERIOD OF RECORD--Water years 2007-08.

REMARKS.--Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 15.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 5

[Remark codes: <, less than; E, estimated.]

Date	Time	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorb- ance, 254 nm, wat flt units /cm (50624)	UV absorb- ance, 280 nm, wat flt units /cm (61726)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L of sat- uration (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf μS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, mg/L fltrd, (00915)
<b>Nov</b> 20...	1000	.6	.142	.117	765	9.6	85	5.9	30	9.0	9.8	5	1.07
<b>Feb</b> 26...	1030	2.0	.298	.233	755	10.7	86	4.8	43	9.0	6.0	5	1.11
<b>May</b> 13...	0930	2.7	.781	.611	761	9.3	85	4.7	45	14.5	11.3	5	.66
<b>Aug</b> 26...	0930	.7	.076	.061	763	8.2	86	6.1	31	20.5	18.2	5	1.24

## 01411295 TUCKAHOE RIVER AT ROUTE 49 AT HUNTERS MILL, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 5

[Remark codes: &lt;, less than; E, estimated.]

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfixed end pt, lab, mg/L as CaCO3 (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO2 (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non-filterable, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)
Nov 20...	.660	.81	2.55	1.9	4.76	<.12	8.8	2.40	23	38	1	.38	.031
Feb 26...	.618	.53	2.82	<1.7	4.87	<.12	6.6	4.60	--	33	5	.23	.014
May 13...	.698	.48	2.76	--	5.11	<.12	5.8	4.24	--	54	3	.92	.022
Aug 26...	.556	.65	2.66	2.5	4.40	<.12	7.2	1.97	21	22	3	.35	.017

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 3 of 5

[Remark codes: &lt;, less than; E, estimated.]

Date	Nitrate + nitrite water fltrd, mg/L as N (00631)	Particulate nitrogen, susp, water, mg/L (49570)	Total nitrogen, water, fltrd, mg/L (00602)	Total nitrogen, water, unfltrd, mg/L (00600)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L as P (00666)	Phosphorus, water, unfltrd, mg/L as P (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Arsenic water, fltrd, µg/L (01000)	Arsenic water, unfltrd, µg/L (01002)
Nov 20...	.14	E.03	.52	E.55	.015	.017	.020	.2	<.04	.2	2.7	--	--
Feb 26...	.15	.06	.39	.44	E.005	E.006	.009	.5	<.04	.5	6.3	.16	<.60
May 13...	E.03	.10	E.95	E1.0	<.010	E.006	.012	1.5	<.04	1.5	15.2	--	--
Aug 26...	.13	E.04	.48	E.51	.013	.021	.032	.5	<.04	.5	1.6	.08	<.60

## 01411295 TUCKAHOE RIVER AT ROUTE 49 AT HUNTERS MILL, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 4 of 5

[Remark codes: &lt;, less than; E, estimated.]

Date	Barium, water, unfltrd recover- -able, µg/L (01007)	Beryll- ium, water, unfltrd recover- -able, µg/L (01012)	Boron, water, fltrd, µg/L (01020)	Boron, water, unfltrd recover- -able, µg/L (01022)	Cadmium water, unfltrd µg/L (01027)	Chrom- ium, water, unfltrd recover- -able, µg/L (01034)	Copper, water, unfltrd recover- -able, µg/L (01042)	Iron, water, unfltrd recover- -able, µg/L (01045)	Lead, water, unfltrd recover- -able, µg/L (01051)	Mangan- ese, water, unfltrd recover- -able, µg/L (01055)	Mercury water, unfltrd recover- -able, µg/L (71900)	Nickel, water, unfltrd recover- -able, µg/L (01067)	Selen- ium, water, unfltrd µg/L (01147)
Nov 20...	--	--	8.0	--	--	--	--	--	--	--	--	--	--
Feb 26...	25.6	.08	10	11	.04	E.23	E.81	143	.47	7.0	<.010	1.1	E.05
May 13...	--	--	12	--	--	--	--	--	--	--	--	--	--
Aug 26...	19.8	<.04	7.7	13	.02	<.40	<1.2	98	.34	3.3	<.010	.54	E.05

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007**  
**TO SEPTEMBER 2008**

Part 5 of 5

[Remark codes: <, less than;  
E, estimated.]

Date	Silver, water, unfltrd recover- -able, µg/L (01077)	Zinc, water, unfltrd recover- -able, µg/L (01092)
Nov 20...	--	--
Feb 26...	<.02	4.5
May 13...	--	--
Aug 26...	<.02	E1.6

## 01411295 TUCKAHOE RIVER AT ROUTE 49 AT HUNTERS MILL, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	1-Naphthol, water, fltrd, 0.7u GF, µg/L (49295)	2,6-Diethyl-aniline, water, fltrd, 0.7u GF, µg/L (82660)	2Chloro-2',6'-diethyl acet-anilide, wat flt, µg/L (61618)	CIAT, water, fltrd, µg/L (04040)	2-Ethyl-6-methyl-aniline, water, fltrd, µg/L (61620)	3,4-Di-chloro-aniline, water, fltrd, µg/L (61625)	3,5-Di-chloro-aniline, water, fltrd, µg/L (61627)	4-Chloro-2methyl phenol, water, fltrd, µg/L (61633)	Aceto-chlor, water, fltrd, µg/L (49260)	Ala-chlor, water, fltrd, µg/L (46342)	alpha-Endo-sulfan, water, fltrd, µg/L (34362)	Atra-zine, water, fltrd, µg/L (39632)	Azin-phos-methyl oxon, water, fltrd, µg/L (61635)
May 13...	<.04	<.006	<.010	E.005	<.010	<.006	<.008	<.005	<.006	<.006	<.006	E.006	<.04

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	Azin-phos-methyl, water, fltrd, 0.7u GF, µg/L (82686)	Ben-flu-ralin, water, fltrd, 0.7u GF, µg/L (82673)	Car-baryl, water, fltrd, 0.7u GF, µg/L (82680)	Carbo-furan, water, fltrd, 0.7u GF, µg/L (82674)	Chlor-pyrifos oxon, water, fltrd, µg/L (61636)	Chlor-pyrifos, water, fltrd, µg/L (38933)	cis-Per-methrin, water, fltrd, 0.7u GF, µg/L (82687)	cis-Propi-cona-zole, water, fltrd, µg/L (79846)	Cyana-zine, water, fltrd, µg/L (04041)	Cyflu-thrin, water, fltrd, µg/L (61585)	lambda-Cyhalo-thrin, water, fltrd, µg/L (61595)	Cyper-methrin, water, fltrd, µg/L (61586)	DCPA, water, fltrd, 0.7u GF, µg/L (82682)
May 13...	<.120	<.010	<.060	<.020	<.06	<.005	<.010	<.006	<.020	<.016	<.004	<.014	<.003

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 3 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	Desulf-inyl-fipro-nil, water, fltrd, µg/L (62170)	Diazi-non, water, fltrd, µg/L (39572)	Dicro-tophos, water, fltrd, µg/L (38454)	Diel-drin, water, fltrd, µg/L (39381)	Dimeth-oate, water, fltrd, 0.7u GF, µg/L (82662)	Disulf-oton sulfone, water, fltrd, µg/L (61640)	Disul-foton, water, fltrd, 0.7u GF, µg/L (82677)	Endo-sulfan sulfate, water, fltrd, µg/L (61590)	EPTC, water, fltrd, 0.7u GF, µg/L (82668)	Ethion monoxon, water, fltrd, µg/L (61644)	Ethion, water, fltrd, µg/L (82346)	Etho-prop, water, fltrd, 0.7u GF, µg/L (82672)	Fenami-phos sulfone, water, fltrd, µg/L (61645)
May 13...	<.012	<.005	<.08	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.006	<.012	<.053

01411295 TUCKAHOE RIVER AT ROUTE 49 AT HUNTERS MILL, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 4 of 7

[Remark codes: <, less than; E, estimated.]

Date	Fenami-phos sulf-oxide, water, fltrd, µg/L (61646)	Fenami-phos, water, fltrd, µg/L (61591)	Desulf-inyl-fipro-nil amide, wat flt µg/L (62169)	Fipro-nil sulfide, water, fltrd, µg/L (62167)	Fipro-nil sulfone, water, fltrd, µg/L (62168)	Fipro-nil, Fonofos, water, fltrd, µg/L (62166)	Hexa-zinone, water, fltrd, µg/L (04025)	Ipro-dione, water, fltrd, µg/L (61593)	Isofen-phos, water, fltrd, µg/L (61594)	Mala-oxon, water, fltrd, µg/L (61652)	Mala-thion, water, fltrd, µg/L (39532)	Meta-laxyl, water, fltrd, µg/L (61596)	
May 13...	<.20	<.03	<.029	<.013	<.024	<.020	<.010	<.008	<.01	<.006	<.020	<.016	<.007

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 5 of 7

[Remark codes: <, less than; E, estimated.]

Date	Methid-athion, water, fltrd, µg/L (61598)	Methyl para-oxon, water, fltrd, µg/L (61664)	Methyl para-thion, water, fltrd, 0.7u GF µg/L (82667)	Metola-chlor, water, fltrd, µg/L (39415)	Metri-buzin, water, fltrd, µg/L (82630)	Moli-nate, water, fltrd, 0.7u GF µg/L (82671)	Myclo-butanil, water, fltrd, µg/L (61599)	Oxy-fluor-fen, water, fltrd, µg/L (61600)	Pendi-meth-alin, water, fltrd, 0.7u GF µg/L (82683)	Phorate oxon, water, fltrd, µg/L (61666)	Phorate water, fltrd, 0.7u GF µg/L (82664)	Phosmet oxon, water, fltrd, µg/L (61668)	Phosmet water, fltrd, µg/L (61601)
May 13...	<.004	<.01	<.008	E.008	<.012	<.003	<.010	<.006	<.012	<.03	<.040	<.05	<.008

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 6 of 7

[Remark codes: <, less than; E, estimated.]

Date	Prome-ton, water, fltrd, µg/L (04037)	Prome-tryn, water, fltrd, µg/L (04036)	Propy-zamide, water, fltrd, 0.7u GF µg/L (82676)	Pro-panil, water, fltrd, 0.7u GF µg/L (82679)	Propar-gite, water, fltrd, 0.7u GF µg/L (82685)	Sima-zine, water, fltrd, µg/L (04035)	Tebu-thiuron, water, fltrd, 0.7u GF µg/L (82670)	Teflu-thrin, water, fltrd, µg/L (61606)	Ter-bufos oxon sulfone, water, fltrd, µg/L (61674)	Terbu-fos, water, fltrd, 0.7u GF µg/L (82675)	Ter-buthyl-azine, water, fltrd, µg/L (04022)	Thio-bencarb water, fltrd, 0.7u GF µg/L (82681)	trans-Propi-cona-zole, water, fltrd, µg/L (79847)
May 13...	<.01	<.006	<.004	<.006	<.04	<.006	<.02	<.003	<.04	<.02	<.01	<.010	<.02

01411295 TUCKAHOE RIVER AT ROUTE 49 AT HUNTERS MILL, NJ—Continued

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2007 TO  
SEPTEMBER 2008**

Part 7 of 7

[Remark codes: <, less than; E, estimated.]

<b>Date</b>	<b>Tribu- phos, water, fltrd, µg/L (61610)</b>	<b>Tri- flur- alin, water, fltrd 0.7µ GF µg/L (82661)</b>	<b>Di- chlor- vos, water, fltrd, µg/L (38775)</b>
<b>May 13...</b>	<.035	<.009	<.01